

ABSTRACT

A monitoring system is described which simplifies the management of complex, multi-tiered networks such as those used in large enterprises. One embodiment of the system is implemented on a cluster of application servers which are communicatively coupled together on a network to serve applications over the network to a plurality of clients. One embodiment of the monitoring system is built from a group of services. An administration service generates a plurality of runtime management beans ("MBeans") on each of the server nodes of the cluster and associates each of the runtime MBeans with specified server node resources. In addition, in one embodiment, a notification service generates cluster-wide notifications in response to certain specified events associated with certain resources of certain MBeans. The notification service distributes the notifications across all, or a subset of, the server nodes of the cluster. In addition, a monitor service generates monitor MBeans corresponding to selected runtime MBeans. The monitor MBeans are arranged in a hierarchical tree structure and are configured to receive monitoring data from associated runtime MBeans.